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ATTORNEY DOCKET NO. AUS920010995US1

In re Application of: **Cook**	§	
	§	
	§	Examiner: **Unknown**
	§	
Serial No. **10/047,801**	§	Group Art Unit: **2151**
	§	
Filed: **January 15, 2002**	§	
	§	
For: **Method, Apparatus, and Program for a State Machine Framework**	§	
	§	
	§	

LETTER TO THE OFFICIAL DRAFTSMAN

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Submitted herewith are formal drawings (8 sheets) for the above-identified application.

Respectfully submitted,

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ATTORNEY FOR APPLICANT

I hereby certify this correspondence is being deposited with the United States Postal service as First Class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231

on 03-11-02 by Dell Whitton

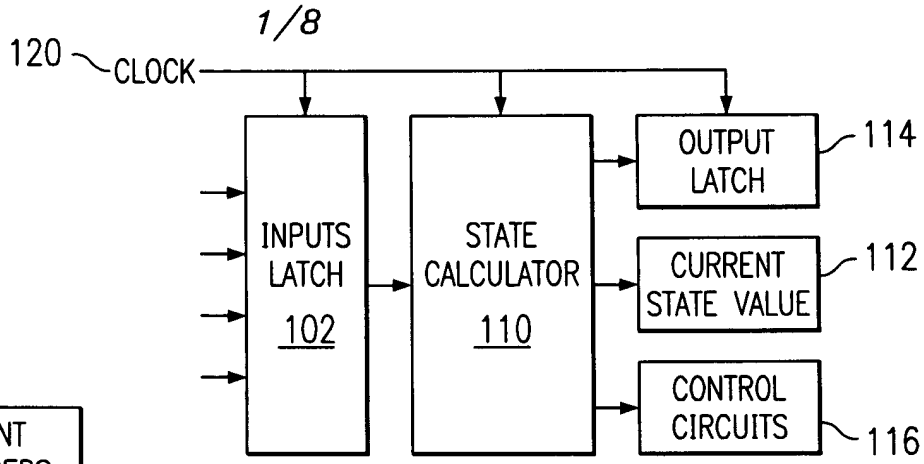

FIG. 1

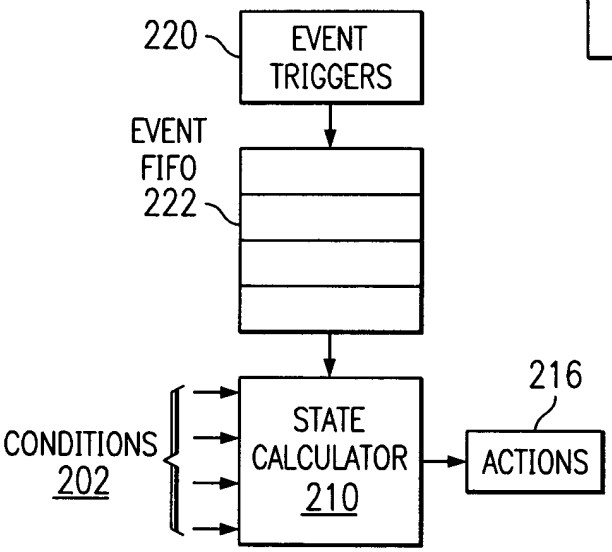

FIG. 2

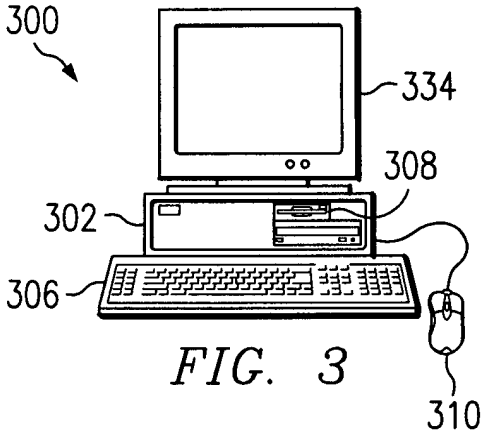

FIG. 3

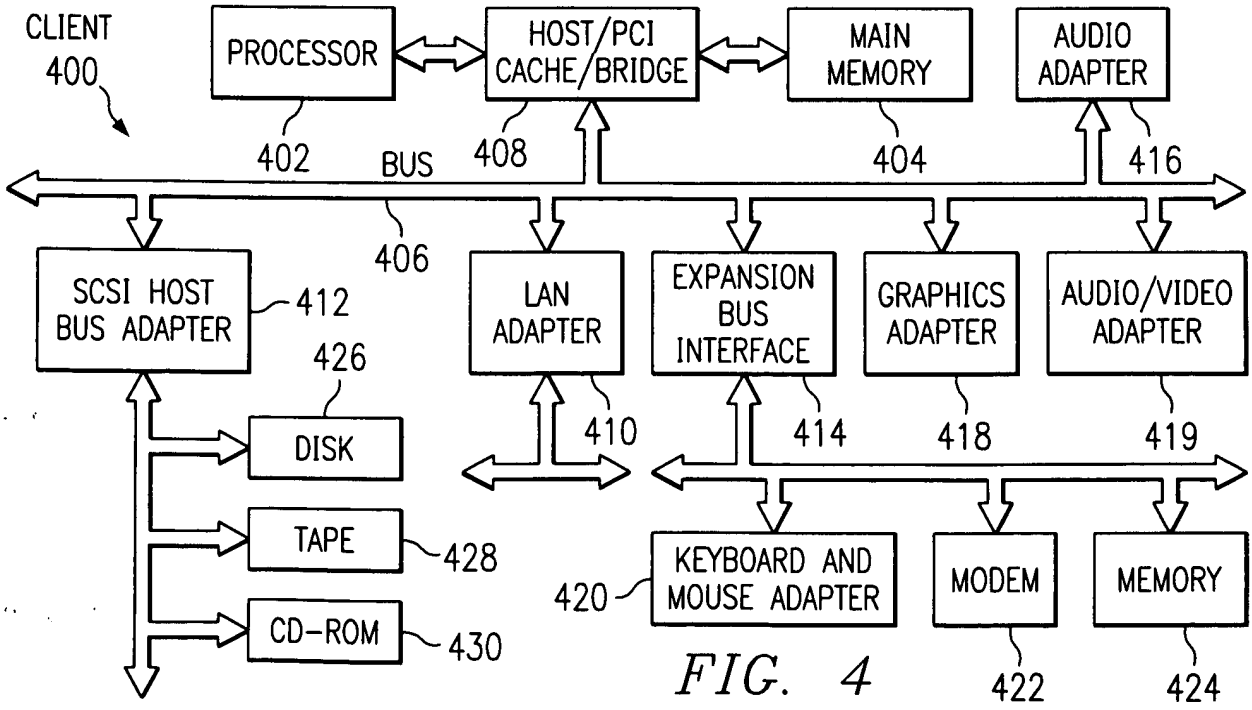

FIG. 4

STATES	
ID	DESCRIPTION
S1	NEW
S2	STARTING
S3	RUNNING
S4	PAUSED
S5	STOPPING
S6	STOPPED
S7	ERROR

510

ACTIONS	
ID	DESCRIPTION
A1	START EMBEDDED TASK
A2	STOP EMBEDDED TASK
A3	PAUSE TRACE SUBSYSTEM
A4	RESUME TRACE SUBSYSTEM

520

INPUTS	
ID	DESCRIPTION
TSV	EMBEDDED TASK STATE VARIABLE {"NEW","STARTING","RUNNING","STOPPING","STOPPED","ERROR"}
CSV	EMBEDDED COMMAND STATE VARIABLE {"NO-OP","START","STOP","PAUSE","RESUME"}

530

CONDITIONS		
ID	CSV VALUE	TSV VALUE
C1	NO-OP	NEW
C2	START	NEW OR STARTING
C3	START	RUNNING
C4	STOP	NEW
C5	--	ERROR
C6	STOP	STARTING OR RUNNING
C7	--	STOPPED
C8	RESUME	RUNNING
C9	STOP	RUNNING
C10	PAUSE	RUNNING
C11	--	STOPPING

560

EVENTS	
ID	DESCRIPTION
E1	STATE CHANGED EVENT

540

TRIGGERS	
ID	DESCRIPTION
T1	STATE CHANGED EVENT
T2	NEW COMMAND WRITTEN

570

FIG. 5A

550

FIG. 5B

STATE TABLE							
CURRENT STATE/NEXT STATE	S1	S2	S3	S4	S5	S6	S7
S1	C1 -- --	C2 A1 E1	C3 -- E1	X	X	C4 -- E1	C5 -- E1
S2	X	C2 -- --	C3 A4 E1	X	C6 A2, A3 E1	C7 -- E1	C5 -- E1
S3	X	X	C3 C8 -- -- -- --	C10 A3 E1	C9 A2, A3 E1	C7 A3 E1	C5 A3 E1
S4	X	X	C8 A4 E1	C10 -- --	C9 A2, A3 E1	C7 A3 E1	C5 A3 E1
S5	X	X	X	X	C11 -- --	C7 -- E1	C5 -- E1
S6	X	X	X	X	X	C7 -- --	X
S7	X	X	X	X	X	X	C5 -- --

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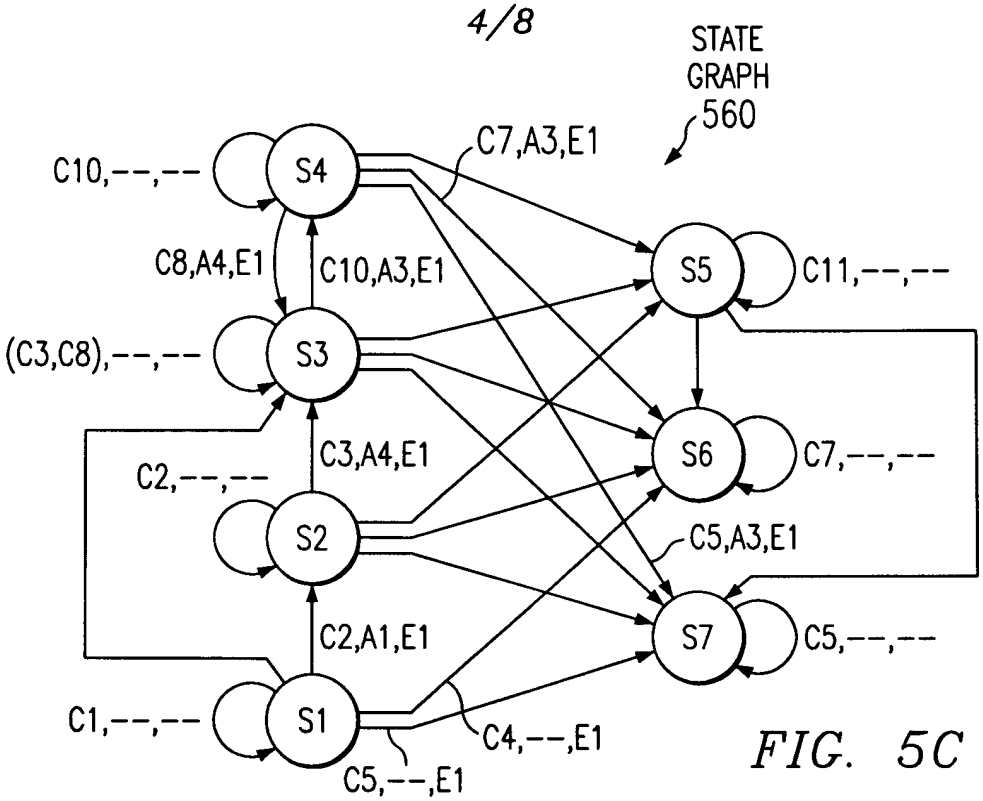

STATE
GRAPH
560
S1
S2
S3
S4
S5
S6
S7
C10,--,--
C7,A3,E1
C8,A4,E1
C10,A3,E1
C11,--,--
(C3,C8),--,--
C3,A4,E1
C7,--,--
C2,--,--
C5,A3,E1
C2,A1,E1
C5,--,--
C1,--,--
C4,--,E1
C5,--,E1

FIG. 5C

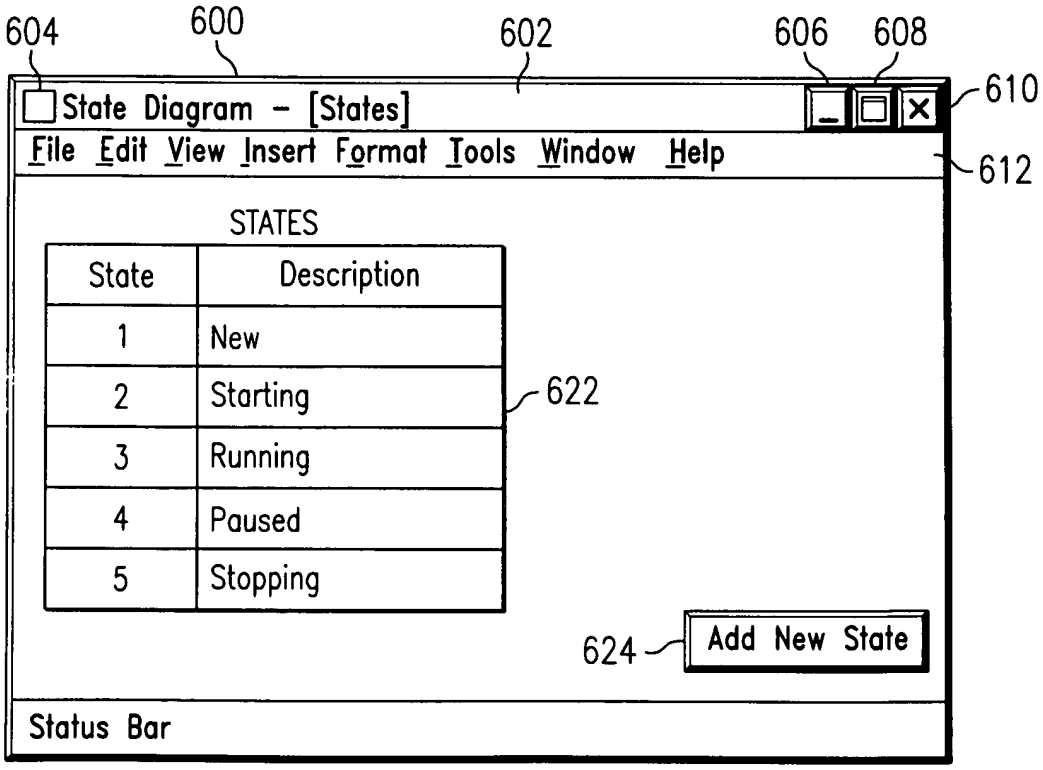

604
600
602
606
608
610
State Diagram - [States]
File Edit View Insert Format Tools Window Help
612
STATES
State
Description
1
New
2
Starting
3
Running
4
Paused
5
Stopping
622
624
Add New State
Status Bar

FIG. 6A

FIG. 6B

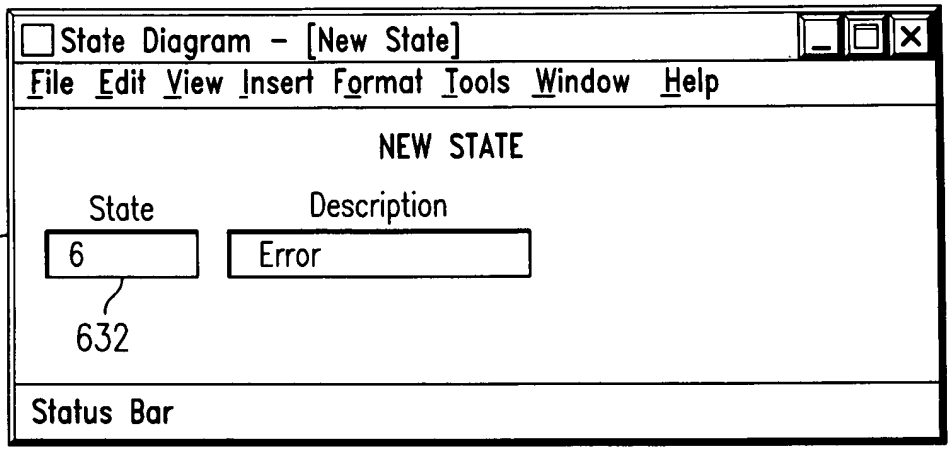


FIG. 6C

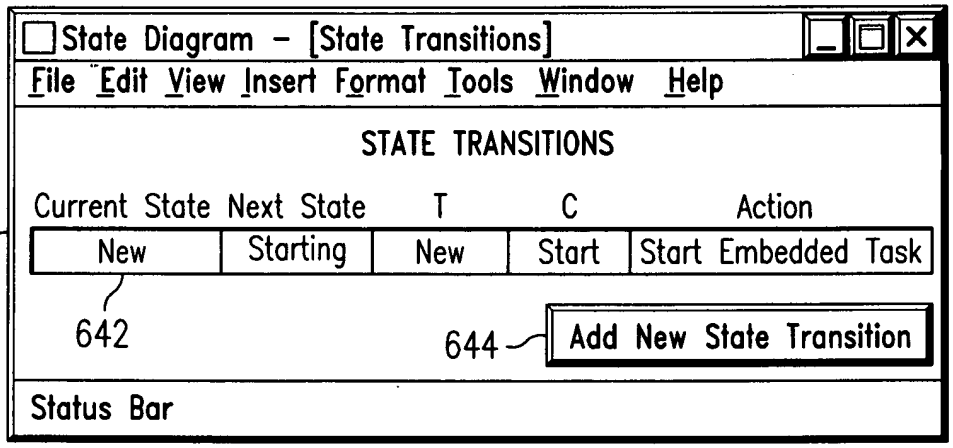
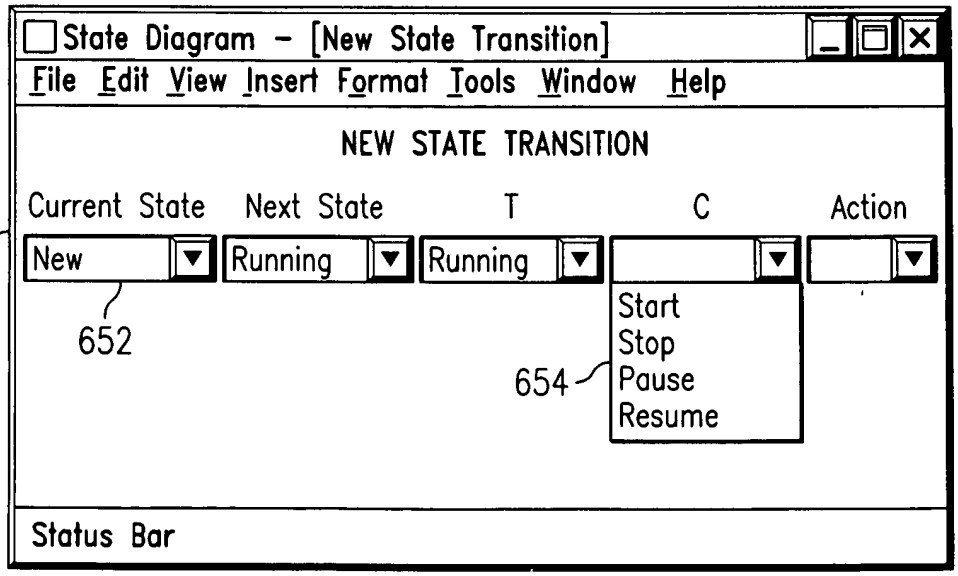


FIG. 6D



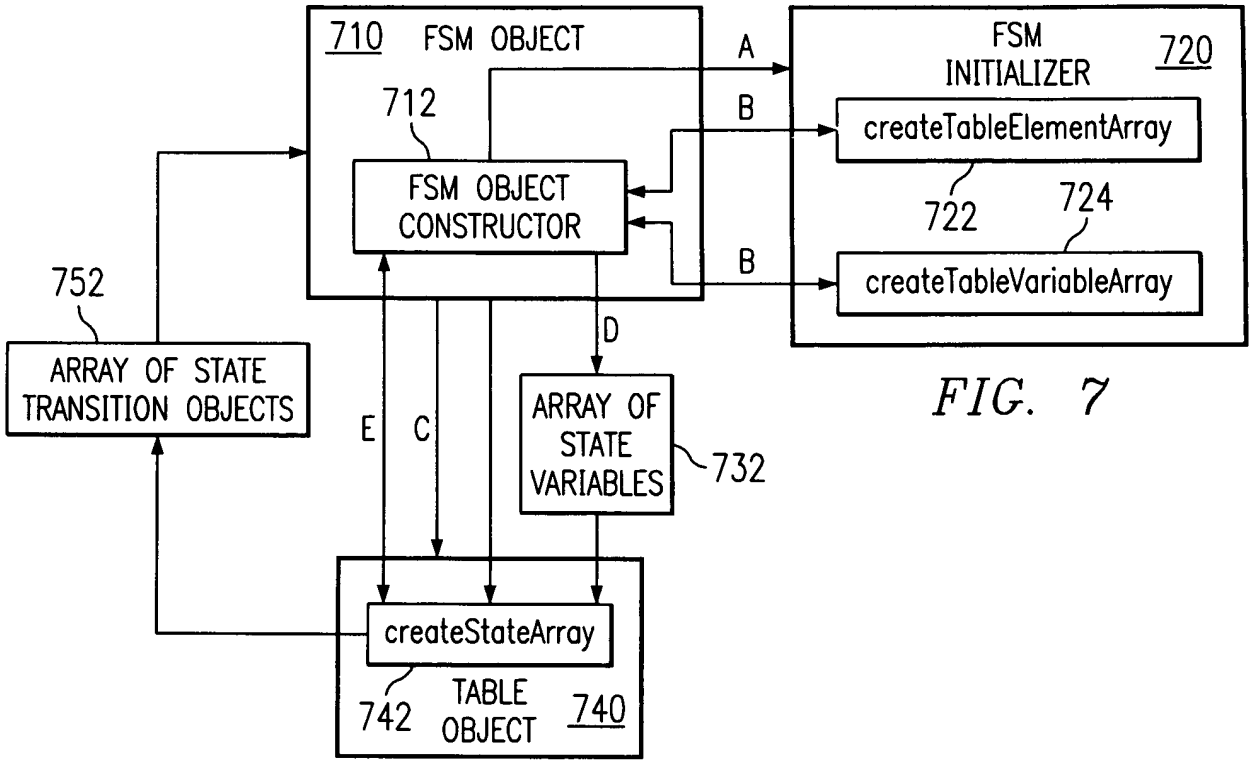


FIG. 7

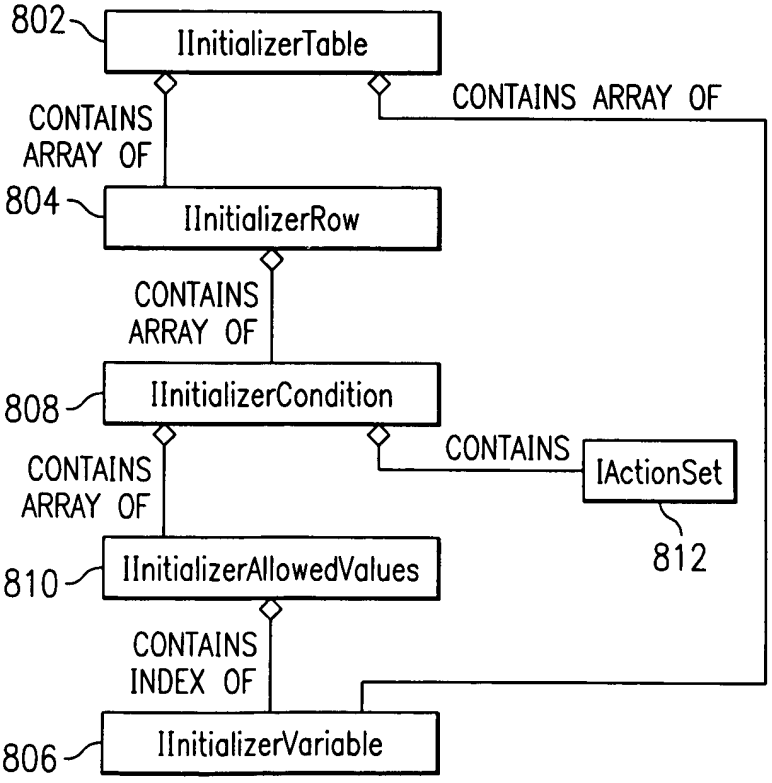


FIG. 8A

RCF Exhibit 1004

FIG. 8B

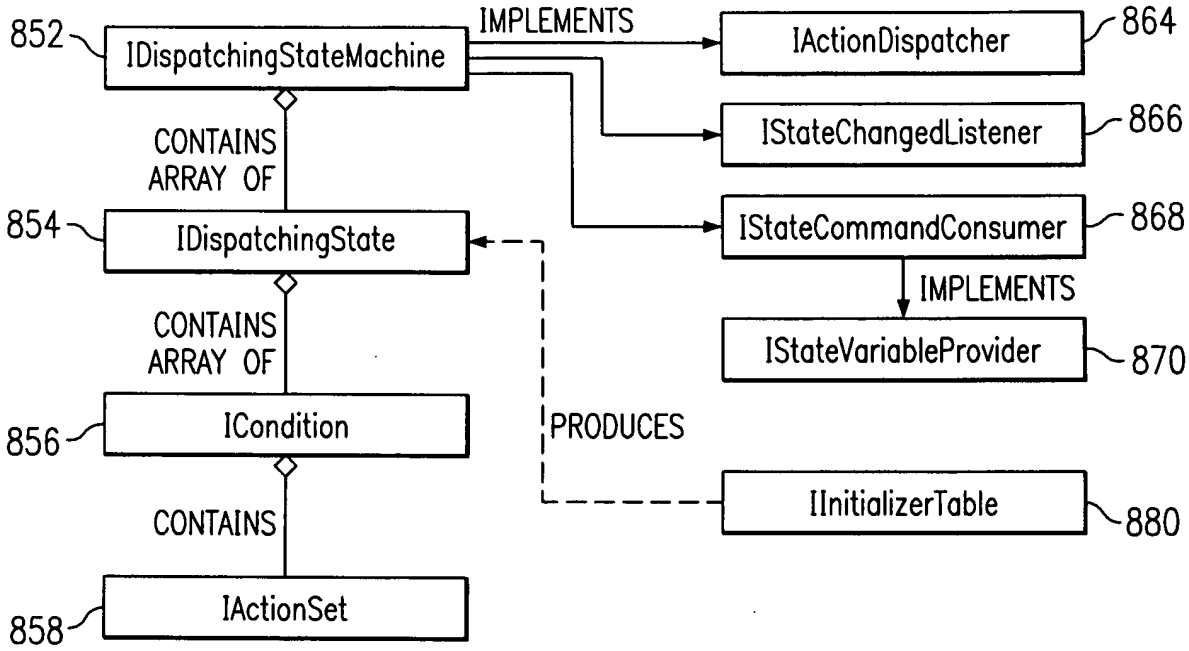
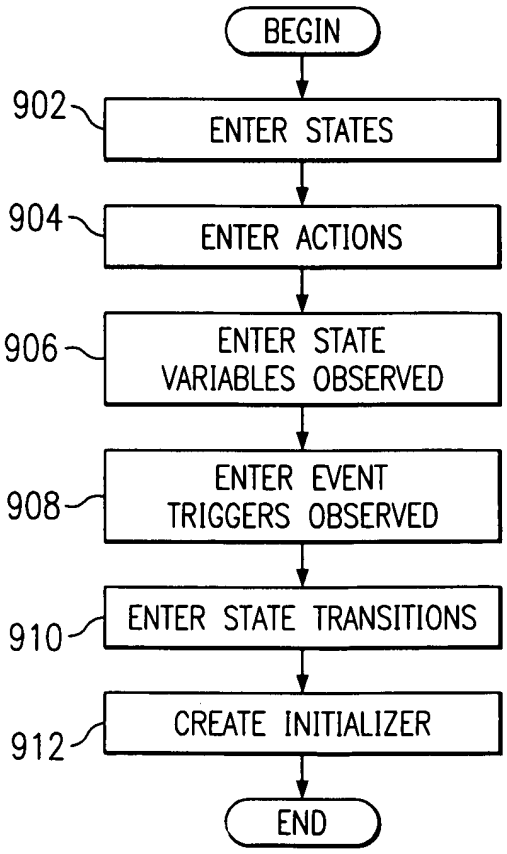
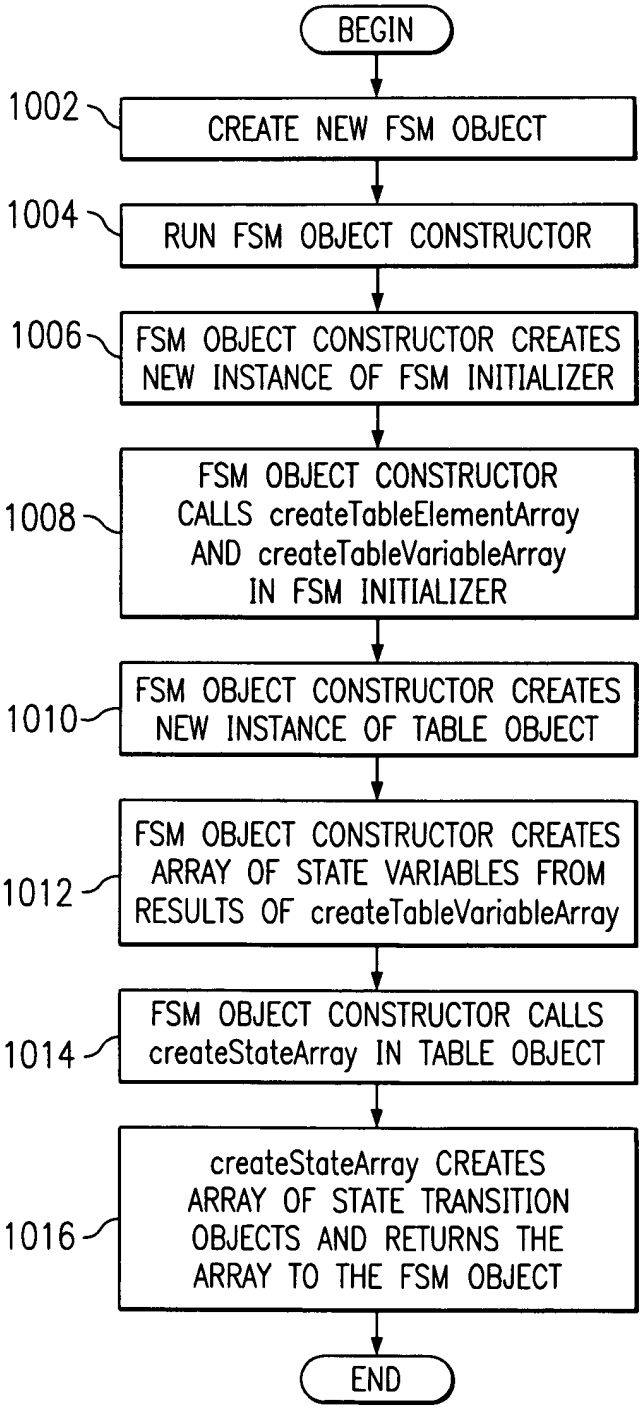


FIG. 9



Docket: AUS920010995US1

FIG. 10


BEGIN
1002
CREATE NEW FSM OBJECT
1004
RUN FSM OBJECT CONSTRUCTOR
1006
FSM OBJECT CONSTRUCTOR CREATES NEW INSTANCE OF FSM INITIALIZER
1008
FSM OBJECT CONSTRUCTOR CALLS createTableElementArray AND createTableVariableArray IN FSM INITIALIZER
1010
FSM OBJECT CONSTRUCTOR CREATES NEW INSTANCE OF TABLE OBJECT
1012
FSM OBJECT CONSTRUCTOR CREATES ARRAY OF STATE VARIABLES FROM RESULTS OF createTableVariableArray
1014
FSM OBJECT CONSTRUCTOR CALLS createStateArray IN TABLE OBJECT
1016
createStateArray CREATES ARRAY OF STATE TRANSITION OBJECTS AND RETURNS THE ARRAY TO THE FSM OBJECT
END